

**CN 1130963**

Derwent WPI

(c) 2007 The Thomson Corporation. All rights reserved.

0008876360

WPI Acc no: 1998-424378/199836

Related WPI Acc No: 2002-486697

XRPX Acc No: N1998-331673

**Component extracting mechanism for component supply device e.g. for semiconductor chip - has stationary and mobile component extracting units with pair of respective grooves which guide components to vertical paths provided between stationary and mobile component extracting units**

Patent Assignee: TAIYO YUDEN KK (TAIO)

Inventor: MATSUI H; SAITO K; YASUDA T

Patent Family ( 10 patents, 4 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
JP 10178297	A	19980630	JP 1996337247	A	19961217	199836	B
CN 1211161	A	19990317	CN 1997108754	A	19971217	199930	E
KR 1998064157	A	19981007	KR 199769049	A	19971216	199949	E
US 6062423	A	20000516	US 1997990298	A	19971215	200031	E
US 6290095	B1	20010918	US 1997990298	A	19971215	200157	E
			US 2000571264	A	20000515		
KR 277371	B	20010115	KR 199769049	A	19971216	200206	E
US 20010052446	A1	20011220	US 1997990298	A	19971215	200206	E
			US 2000571264	A	20000515		
			US 2001924844	A	20010809		
US 20020011398	A1	20020131	US 1997990298	A	19971215	200210	E
			US 2000571264	A	20000515		
			US 2001924845	A	20010809		
US 6655547	B2	20031202	US 1997990298	A	19971215	200379	E
			US 2000571264	A	20000515		
			US 2001924844	A	20010809		
CN 1130963	C	20031210	CN 1997108754	A	19971217	200568	E

Priority Applications (no., kind, date): JP 1996337247 A 19961217

## Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
JP 10178297	A	JA	10	15		
KR 1998064157	A	KO		54		
US 6290095	B1	EN			Continuation of application	US 1997990298
					Continuation of patent	US 6062423
KR 277371	B	KO			Previously issued patent	KR 98064157
US 20010052446	A1	EN			Continuation of application	US 1997990298
					Continuation of application	US 2000571264

				Continuation of patent	US 6062423
				Continuation of patent	US 6290095
US 20020011398	A1	EN		Continuation of application	US 1997990298
				Continuation of application	US 2000571264
				Continuation of patent	US 6062423
				Continuation of patent	US 6290095
US 6655547	B2	EN		Continuation of application	US 1997990298
				Continuation of application	US 2000571264
				Continuation of patent	US 6062423
				Continuation of patent	US 6290095

#### Alerting Abstract JP A

The mechanism includes a hopper (2) which accommodates several components (P). The hopper comprises a pair of component extracting units (3,4) of which one is stationary and the other mobile. The mobile extracting unit is driven by a drive unit. When the mobile extracting unit is driven upwards along vertical direction, a component which contacts a first curved recess (4b) of the mobile extracting unit is guided to vertical paths (3a,4a).

The vertical paths are provided between the extracting units. When the mobile extracting unit is lowered along vertical direction, a component which contacts a second curved recess (3b) of stationary extracting unit is guided to the vertical paths.

ADVANTAGE - Enables stable component extraction without interruption.

**Title Terms /Index Terms/Additional Words:** COMPONENT; EXTRACT; MECHANISM; SUPPLY; DEVICE; SEMICONDUCTOR; CHIP; STATIONARY; MOBILE; UNIT; PAIR; RESPECTIVE; GROOVE; GUIDE; VERTICAL; PATH

#### Class Codes

##### International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
B65G-047/12; B65G-047/24; B65H-005/00; H05K-013/02			Main		"Version 7"
B23P-019/00			Secondary		"Version 7"

US Classification, Issued: 198396000, 198453000, 221236000, 221200000, 221236000, 221200000, 221163000, 221263000, 221156000, 221263000

File Segment: EngPI; EPI;

DWPI Class: U11; V04; P56; Q35; Q36

Manual Codes (EPI/S-X): U11-F02A3; U11-F02A4; V04-R04G; V04-V01

#### China

**Publication No.** CN 1130963 C (Update 200568 E)

**Publication Date:** 20031210

**Assignee:** TAIYO YUDEN KK; JP (TAIO)

**Inventor:** SAITO K

MATSUI H

YASUDA T

Language: ZH  
Application: CN 1997108754 A 19971217 (Local application)  
Priority: JP 1996337247 A 19961217  
Original IPC: H05K-13/02(A) B65G-47/24(B) B65H-5/00(B)  
Current IPC: H05K-13/02(A) B65G-47/24(B) B65H-5/00(B)

**Publication No.** CN 1211161 A (Update 199930 E)  
**Publication Date:** 19990317  
**Assignee:** TAIYO YUDEN KK; JP (TAIO)  
**Language:** ZH  
**Application:** CN 1997108754 A 19971217 (Local application)  
**Priority:** JP 1996337247 A 19961217  
**Original IPC:** H05K-13/02(A)  
**Current IPC:** H05K-13/02(A)

- 1. A chip component take-in apparatus in which prismatic chip components stored in a bulk state in a chamber are taken in one by one and are guided downward, comprising:
  - 1. two take-in members disposed under said chamber and relatively movable in a face contact state; and
  - 2. a passage provided between said two take-in members for taking in and guiding downward said chip components one by one in a predetermined direction by self-weight when said two take-in members are moved relatively in the face contact state.

**Original Abstract:** A chip component take-in apparatus takes in and guides downward prismatic chip components stored in a bulk state in a storage chamber one by one in a predetermined direction. When a first take-in member and a second take-in member are relatively moved up and down in each flat face contact state, the chip components in face contact with the flat faces of the take-in members are gradually guided to a center along guide ways. The guided chip components in the longitudinal direction thereof are taken into a passage constituted by grooves and are moved downward along the passage by self-weight.

**CN 1130963**

Derwent WPI

(c) 2007 The Thomson Corporation. All rights reserved.

0007516823

WPI Acc no: 1996-129650/199613

XRPX Acc No: N1996-108943

**Transmission power control method for variable rate communication system - includes comparing frame error rate or level of received power with predetermined threshold values at base station**

Patent Assignee: QUALCOMM INC (QUAL-N)

Inventor: DIEMAN A G; GILHOUSEN K S; GILHOUSEN S; JIERHAUSEN K S; LEVIN A;

LEVIN J A; ODENHUDE J P; ODENWALDER J P; ODENWALDER P; TIEDEMAN E G;

TIEDEMANN E G; TIEDEMANN G; WHEATLEY C E; WHEATLEY E; ZEHAVI E

Patent Family ( 24 patents, 67 countries )

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 1996004718	A1	19960215	WO 1995US8477	A	19950705	199613	B
ZA 199505940	A	19960327	ZA 19955940	A	19950717	199619	E
AU 199530936	A	19960304	AU 199530936	A	19950705	199623	E
TW 274165	A	19960411	TW 1995108517	A	19950815	199629	E
EP 721704	A1	19960717	EP 1995926626	A	19950705	199633	E
			WO 1995US8477	A	19950705		
FI 199601414	A	19960520	WO 1995US8477	A	19950705	199638	E
			FI 19961414	A	19960328		
JP 9506231	W	19970617	WO 1995US8477	A	19950705	199734	E
			JP 1996506501	A	19950705		
BR 199506276	A	19970812	BR 19956276	A	19950705	199739	E
			WO 1995US8477	A	19950705		
CN 1130963	A	19960911	CN 1995190673	A	19950705	199801	E
AU 687227	B	19980219	AU 199530936	A	19950705	199824	E
MX 199601213	A1	19970601	MX 19961213	A	19960329	199825	E
US 5822318	A	19981013	US 1994283308	A	19940729	199848	E
IL 114761	A	19990922	IL 114761	A	19950727	200002	E
RU 2148889	C1	20000510	WO 1995US8477	A	19950705	200055	E
			RU 1996108811	A	19950705		
JP 3256239	B2	20020212	WO 1995US8477	A	19950705	200213	E
			JP 1996506501	A	19950705		
KR 341960	B	20021113	WO 1995US8477	A	19950705	200330	E
			KR 1996701718	A	19960329		
CN 1419346	A	20030521	CN 1995190673	A	19950705	200355	E
			CN 2002101831	A	19950705		
FI 200400051	A	20040115	WO 1995US8477	A	19950705	200416	E
			FI 19961414	A	19960328		
			FI 200451	A	20040115		
FI 114125	B1	20040813	WO 1995US8477	A	19950705	200455	E
			FI 19961414	A	19960328		

EP 721704	B1	20041020	EP 1995926626	A	19950705	200469	E
			WO 1995US8477	A	19950705		
DE 69533665	E	20041125	DE 69533665	A	19950705	200477	E
			EP 1995926626	A	19950705		
			WO 1995US8477	A	19950705		
CN 1081854	C	20020327	CN 1995190673	A	19950705	200516	E
DE 69533665	T2	20060216	DE 69533665	A	19950705	200614	E
			EP 1995926626	A	19950705		
			WO 1995US8477	A	19950705		
CN 1224191	C	20051019	CN 2002101831	A	19950705	200650	E

Priority Applications (no., kind, date): US 1994283308 A 19940729; WO 1995US8477 A 19950705

#### Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
WO 1996004718	A1	EN	31	3		
National Designated States,Original	AM AT AU BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU IS JP KE KG KP KR KZ LK LR LT LU LV MD MG MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TT UA UG UZ VN					
Regional Designated States,Original	AT BE CH DE DK ES FR GB GR IE IT KE LU MC MW NL OA PT SD SE SZ UG					
ZA 199505940	A	EN	30			
AU 199530936	A	EN			Based on OPI patent	WO 1996004718
TW 274165	A	ZH				
EP 721704	A1	EN	31	3	PCT Application	WO 1995US8477
					Based on OPI patent	WO 1996004718
Regional Designated States,Original	AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE					
FI 199601414	A	FI			PCT Application	WO 1995US8477
JP 9506231	W	JA	34		PCT Application	WO 1995US8477
					Based on OPI patent	WO 1996004718
BR 199506276	A	PT			PCT Application	WO 1995US8477
					Based on OPI patent	WO 1996004718
AU 687227	B	EN			Previously issued patent	AU 9530936
					Based on OPI patent	WO 1996004718
IL 114761	A	EN				
RU 2148889	C1	RU			PCT Application	WO 1995US8477
					Based on OPI patent	WO 1996004718
JP 3256239	B2	JA	16		PCT Application	WO 1995US8477
					Previously issued patent	JP 09506231
					Based on OPI patent	WO 1996004718
KR 341960	B	KO			PCT Application	WO 1995US8477
					Previously issued patent	KR 96705414
					Based on OPI patent	WO 1996004718
CN 1419346	A	ZH			Division of application	CN 1995190673
FI 200400051	A	FI			PCT Application	WO 1995US8477
					Division of application	FI 19961414
FI 114125	B1	FI			PCT Application	WO 1995US8477

				Previously issued patent	FI 9601414
EP 721704	BI	EN		PCT Application	WO 1995US8477
				Based on OPI patent	WO 1996004718
Regional Designated States, Original	AT BE CH DE DK ES FR GB GR IE IT LI LT LU LV MC NL PT SE SI				
DE 69533665	E	DE		Application	EP 1995926626
				PCT Application	WO 1995US8477
				Based on OPI patent	EP 721704
				Based on OPI patent	WO 1996004718
DE 69533665	T2	DE		Application	EP 1995926626
				PCT Application	WO 1995US8477
				Based on OPI patent	EP 721704
				Based on OPI patent	WO 1996004718

#### Alerting Abstract WO A1

In the communication system, power control signals are provided from a base station (30) to a mobile station (50). The base station determines the power control signal in dependence upon the link characteristic that base station uses as the determination of link quality. If the link quality factor used is received power, then the signal from the mobile station received at base station by an antenna (40) is provided to a receiver (42) which provides an indication of the received power to a control processor (46). If the link quality factor used is frame error rate, then the receiver chain converts and demodulates the signal and provides a signal indicative of the error rate to the control processor. The control processor compares the link quality factor against a threshold or set of thresholds which may be static or varying. Control processor then provides the power control information to either an encoder (34) or power control encoder (47). The power control data is then transmitted to the mobile station.

USE/ADVANTAGE - Mobile communication system. Allows receiver to determine transmission rate and priori to determine power level to be received.

#### Main Drawing Sheet(s) or Clipped Structure(s)

Title Terms /Index Terms/Additional Words: TRANSMISSION; POWER; CONTROL; METHOD; VARIABLE; RATE; COMMUNICATE; SYSTEM; COMPARE; FRAME; ERROR; LEVEL; RECEIVE; PREDETERMINED; THRESHOLD; VALUE; BASE; STATION

#### Class Codes

##### International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
H04B-001/69; H04B-007/005; H04B-007/26; H04J-013/00; H04L-001/12			Main		"Version 7"
H04B-007/26; H04J-013/00			Secondary		"Version 7"
H04B-0007/005	A	I	F		20060101
H04B-0007/005	A	I		R	20060101
H04L-0001/00	A	I		R	20060101
H04L-0001/08	A	I	L		20060101
H04L-0001/08	A	I		R	20060101
H04L-0001/12	A	I	L		20060101

H04B-0007/005	C	I		R	20060101
H04L-0001/00	C	I		R	20060101
H04L-0001/08	C	I		R	20060101

US Classification, Issued: 370391000, 455403000  
File Segment: EPI;  
DWPI Class: W01; W02  
Manual Codes (EPI/S-X): W01-B05A1; W02-C03A1A; W02-C03E3

### Original Publication Data by Authority

#### China

**Publication No.** CN 1081854 C (Update 200516 E)  
**Publication Date:** 20020327  
**Assignee:** QUALCOMM INC; US (QUAL-N)  
**Language:** ZH  
**Application:** CN 1995190673 A 19950705 (Local application)  
**Priority:** US 1994283308 A 19940729  
**Current IPC:** H04B-7/005(R,I,M,EP,20060101,20051008,A) H04B-7/005(R,I,M,EP,20060101,20051008,C) H04L-1/00(R,I,M,EP,20060101,20051008,A) H04L-1/00(R,I,M,EP,20060101,20051008,C) H04L-1/08(R,I,M,EP,20060101,20051008,A) H04L-1/08(R,I,M,EP,20060101,20051008,C)

**Publication No.** CN 1130963 A (Update 199801 E)  
**Publication Date:** 19960911  
**Assignee:** QUALCOMM INC; US (QUAL-N)  
**Inventor:** TIEDEMANN E G  
GILHOUSEN K S  
ODENWALDER J P  
**Language:** ZH  
**Application:** CN 1995190673 A 19950705 (Local application)  
**Priority:** US 1994283308 A 19940729  
**Original IPC:** H04B-7/005(A) H04L-1/08(B) H04L-1/12(B)  
**Current IPC:** H04B-7/005(R,A,I,M,EP,20060101,20051008,A) H04B-7/005(R,I,M,EP,20060101,20051008,C) H04L-1/00(R,I,M,EP,20060101,20051008,A) H04L-1/00(R,I,M,EP,20060101,20051008,C) H04L-1/08(R,I,M,EP,20060101,20051008,A) H04L-1/08(R,I,M,EP,20060101,20051008,C)

**Publication No.** CN 1224191 C (Update 200650 E)  
**Publication Date:** 20051019  
**Assignee:** QUALCOMM INC; US (QUAL-N)  
**Inventor:** DIEMAN A G  
JIERHAUSEN K S  
ODENHUDE J P  
**Language:** ZH  
**Application:** CN 2002101831 A 19950705 (Local application)  
**Priority:** US 1994283308 A 19940729  
**Original IPC:** H04B-7/26(A) H04B-7/005(B) H04L-1/08(B) H04L-1/12(B)  
**Current IPC:** H04B-7/26(A) H04B-7/005(B) H04L-1/08(B) H04L-1/12(B)

**Publication No.** CN 1419346 A (Update 200355 E)

Publication Date: 20030521

Assignee: QUALCOMM INC; US (QUAL-N)

Language: ZH

Application: CN 1995190673 A 19950705 (Division of application)

CN 2002101831 A 19950705 (Local application)

Priority: US 1994283308 A 19940729

Original IPC: H04B-7/26(A) H04B-7/005(B) H04L-1/08(B) H04L-1/12(B)

Current IPC: H04B-7/005(R,A,I,M,EP,20060101,20051008,A) H04B-7/005(R,I,M,EP,20060101,20051008,C) H04L-1/00(R,I,M,EP,20060101,20051008,A) H04L-1/00(R,I,M,EP,20060101,20051008,C) H04L-1/08(R,I,M,EP,20060101,20051008,A) H04L-1/08(R,I,M,EP,20060101,20051008,C)

Update 199613 B)

Publication Date: 19960215

# **METHOD AND APPARATUS FOR CONTROLLING POWER IN A VARIABLE RATE COMMUNICATION SYSTEM**

Assignee: QUALCOMM INCORPORATED, US (QUAL-N)

Inventor: TIEDEMANN, EDWARD, G., JR., US

GILHOUSEN, KLEIN, S., US

ODENWALDER, JOSEPH, P., US

ZEHAVI, EPHRAIM, IL

LEVIN, JEFFREY, A., US

WHEATLEY, CHARLES, E., III, US

Language: EN (31 pages, 3 drawings)

Application: WO 1995US8477 A 19950705 (Local application)

Priority: US 1994283308 A 19940729

Designated States: (National Original) AM AT AU BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU IS JP KE KG KP KR KZ LK LR LT LU LV MD MG MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TT UA UG UZ VN

(Regional Original) AT BE CH DE DK ES FR GB GR IE IT KE LU MC MW NL OA PT SD SE SZ UG

Original IPC: H04B-7/005(A) H04L-1/08(B) H04L-1/12(B)

Current IPC: H04B-7/005(R,I,M,EP,20060101,20051008,A) H04B-7/005(R,I,M,EP,20060101,20051008,C) H04L-1/00(R,I,M,EP,20060101,20051008,A) H04L-1/00(R,I,M,EP,20060101,20051008,C) H04L-1/08(R,I,M,EP,20060101,20051008,A) H04L-1/08(R,I,M,EP,20060101,20051008,C)

Original Abstract: A method and an apparatus for controlling transmission power in a variable rate communication system. A base station (30) monitors the reverse link signal transmitted from a mobile station (50). Base station (30) determines whether mobile station (50) should increase or decrease its power based either upon frame error rates detected by a decoder (44) or by the level of received signal power detected at a receiver (42). In response to this analysis, a control processor (46) generates a power control signal and transmits this signal to mobile station (30).